Product Overview

The NWE9251 is a 2.4GHz 802.11g Wireless Outdoor Bridge that compliant 802.11b/g standards. The NWE9251 covers a large operating distance for Wireless LANs and broadband Internet Access with transfer data rate up to 54Mbps. It links two or more separate networks (typically located in different buildings) to create a single expanded LAN quickly, simply, and economically. The NWE9251 delivers higher transmission rates than an E1 or T1 line, and eliminates the inconvenience of installing an expensive leased line or fiber-optic cable. The NWE9251 fully complies with the IEEE802.11b/g standard. Combining superior wireless technology and advanced features, the NWE9251 Wireless Outdoor Bridge is a reliable, high-performance, cost-effective solution for the most demanding wireless networking environments.

Key Features and Benefits

Superior Coverage and High Speed Transmission

Data rates up to 54Mbps, 5 times of 802.11b product
Features rugged construction and a weatherproof housing proven in outdoor installations exposed to wind, rain, and snow
Offers multiple mounting options for flexible placement to achieve the best possible alignment or coverage

Easy to Use Network Management Tools

Kick Start: If the DHCP server fails or the device is on a different subnet, the Advanced Discovery Protocol allows the NWH9250 to be found and configured.
Bridge Auto Learning: The NWH9250 can intelligently detect its peer bridges' MAC addresses via the advanced wireless technology, saving the user the hassle of entering MAC addresses.
Auto IP address assignment - the NWH9250 will automatically assign itself a new IP address should the DHCP server fail.
On-line firmware upgradability: allows the bridge's firmware to be upgraded via Web-based tool from a remote station without stopping the network.
DHCP client support: automatically obtains a new IP address from a DHCP server.

Remote Configuration

Allows administrators to manage the bridge from anywhere on the network. All that is required is that the bridge be on the same logical IP subnet as the management station.

Security Protection

WEP (Wired Equivalent Privacy): 64, 128 and 256-bit WEP encryption for secure wireless LAN data transmissions.

Detachable Antenna (Optional)

The detachable antenna design allows such options as connecting a high-gain antenna for better signal quality over a wider coverage area.

Outdoor Protection Solution for Harsh Weather

The Outdoor Protection Package bridge to be located outdoors, where it may be subjected to wind, rain, and snow.

Power Over Ethernet

PoE reduces power-cable expenses and increases location options by carrying both data and power to the bridge through a single Ethernet cable.
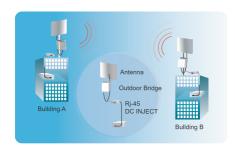
802.11g Wireless Outdoor Bridge Application Scenarios

Point-to-point Mode

Bridges in point-to-point mode connect two networks in different locations through a single wireless link. This allows two widely separated sites to share resources, including a single high-speed connection to the Internet.

Point-to-multipoint Mode

Bridges in point-to-multipoint mode connect three or more networks in scattered buildings through wireless links. This allows numerous sites in a wide area to share resources, including a single high-speed connection to the Internet

Specifications

Standards Compliance	IEEE802.11g, 11b
RF Spreading Method	Direct Sequence Spread Spectrum (DSSS)
Transmission Rate	54/48/36/24/18/12/11/9/6/5.5/2/1Mbps with auto fallback 22Mbps (Optional)
RF Output Power	802.11b: 23dBm (Typical) 802.11g: 20dBm (Typical)
Receive Sensitivity	54 Mbps OFDM, 10% PER, -75dBm 48 Mbps OFDM, 10% PER, -77dBm 36 Mbps OFDM, 10% PER, -82dBm 24 Mbps OFDM, 10% PER, -86dBm 11 Mbps CCK, 8% PER, -90dBm 1 Mbps BPSK, 8% PER, -98dBm
Security	64/128/256-bit WEP; Wi-Fi Protected Access (WPA Q2 Support)
Software Support	Kick Start (Advance discovery protocol for easy to use); Web-based Tool; Bridge Auto Learning (Without the hassle of MAC number records); SNMP Support (Q2 Ready)
Environmental Requirements	Operating Temperature: -20° to 70°C Storage Temperature: -30° to 80°C Humidity: 5% to 95%, non-condensing
Dimensions	237x152x55 mm
Weight	1.4 kg.
Power	Input voltage 24zV DC; external power supply included (input voltage 100V to 240V AC)
Warranty	One year, limited

* Product appearance and specifications are subject to change without prior notice.

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